

Ball screw axis EGC-HD-160- -BS

Part number: 556820

FESTO



Data sheet

Feature	Value
Working stroke	50 mm...1900 mm
Size	160
Screw diameter	15 mm
Mounting position	Any
Guide	Recirculating ball bearing guide
Structural design	Electromechanical linear axis with ball screw
Motor type	Stepper motor Servo motor
Spindle type	Ball screw
Measuring principle of linear potentiometer	Incremental
Max. acceleration	15 m/s ²
Max. speed	1 m/s
Repetition accuracy	±0.02 mm
Duty cycle	100%
LABS (PWIS) conformity	VDMA24364 zone III
Degree of protection	IP40
Ambient temperature	-10 °C...60 °C
2nd moment of area Iy	1350000 mm ⁴
2nd moment of area Iz	10100000 mm ⁴
Max. force Fy	5600 N
Max. force Fz	5600 N
Max. force Fy total axis	5600 N
Max. force Fz total axis	5600 N
Fy with theoretical service life of 100 km (from a guide perspective only)	20630 N
Fz with theoretical service life of 100 km (from a guide perspective only)	20630 N
Max. torque Mx	300 Nm
Max. torque My	500 Nm
Max. torque Mz	500 Nm
Max. moment Mx total axis	300 Nm
Max. moment My total axis	500 Nm
Max. moment Mz total axis	500 Nm

Feature	Value
Mx with theoretical service life of 100 km (from a guide perspective only)	1105 Nm
My with theoretical service life of 100 km (from a guide perspective only)	1842 Nm
Mz with theoretical service life of 100 km (from a guide perspective only)	1842 Nm
Max. radial force on actuator shaft	250 N
Max. feed force Fx	650 N
Torsion moment of inertia It	666000 mm ⁴
Mass moment of inertia JH per meter of stroke	0.0346 kgcm ²
Reference service life	5000 km
Slide weight	2080 g
Additional slide weight	1963 g
Basic weight with 0 mm stroke	7210 g
Additional weight per 10 mm stroke	138 g
Material of end caps	Wrought aluminum alloy Anodized
Moment compensator material	Wrought aluminum alloy Anodized
Profile material	Wrought aluminum alloy Anodized
Note on materials	RoHS-compliant
Drive cover material	Wrought aluminum alloy Anodized
Slide carriage material	Steel
Guide rail material	Steel
Slide material	Wrought aluminum alloy Anodized
Spindle nut material	Steel
Spindle material	Steel